

April 28, 2006

U.S. Environmental Protection Agency  
Water Technical Unit  
P.O. Box 8127  
Boston, Massachusetts 02114

**Re: Annual Report  
NPDES Permit No. MAR041134**

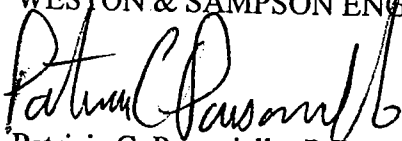
Dear Sir/Madam:

On behalf of the Town of Middleborough, Massachusetts, please find enclosed the Annual Report for permit year three in accordance with the terms of the town's NPDES Phase II Small Municipal Sanitary Sewer Systems (MS4) General Permit. As the report states, the town is in compliance with the permit, with the exception of where implementation of the minimum control measures did not meet the stated schedule documented in our July 2003 Notice of Intent.

If you have any questions or require additional information, please do not hesitate to contact me at (978) 532-1900.

Very truly yours,

WESTON & SAMPSON ENGINEERS, INC.



Patricia C. Passariello, P.E.  
Project Manager

Enclosure

cc: MADEP – Division of Watershed Management  
John F. Healey, Town Manager  
Donald A. Boucher, Highway Superintendent

O:\MIDDLEBOROUGH MA\SW PHASE II\ANNUAL REPORTS\NO. 3 - MAY 06\COVER LTR-YR3 ANNUAL REPORT.DOC

**Municipality/Organization:** Town of Middleborough, Massachusetts  
**EPA NPDES Permit Number:** MAR041134  
**MADEP Transmittal Number:** W-040722  
**Annual Report Number  
& Reporting Period:** No. 3: March 2005-March 2006


## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

**Contact Person:** John F. Healey **Title:** Town Manager  
**Telephone #:** (508) 947-0928 **Email:** NA.

#### Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Signature:** 

**Printed Name:** Wayne C. Perkins

**Title:** Chairman, Board of Selectmen

**Date:** 4-28-06

## **Part II. Self-Assessment**

The Town of Middleborough, Massachusetts has completed the required self-assessment and has determined that, based on existing information, our municipality is in compliance with the conditions of the permit, with the exception of where implementation of our minimum control measures did not meet our stated schedule documented in our July 2003 Notice of Intent. The specific exceptions are detailed in Part III of this annual report.

## **Part III. Summary of Minimum Control Measures**

Please see Table III, Summary of Minimum Control Measures located in Attachment A of this report.

## **Part IV. Summary of Information Collected and Analyzed**

The town hired Weston & Sampson Engineers, Inc. to complete an assessment of its municipal water, wastewater, and stormwater systems. The stormwater section of this Project Evaluation Report (PER) contains valuable information relating to the town's progress on compliance with the Phase II General Permit, including the minimum control measures. The stormwater section of the draft PER was submitted with previous annual reports to provide a more detailed representation of the town's efforts to date to control pollutants from being discharged to surface waters with its stormwater. Comments on the draft were received from the Massachusetts Department of Environmental Protection (MADEP) and a final report submitted for approval. The town is still awaiting final approval of this document from the MADEP. Because of the delay in the approval, implementation of the recommendations, including those related to stormwater, has also been delayed. Upon completion of the final report, the town will begin implementation.

## Part V. Program Outputs & Accomplishments (OPTIONAL)

### Programmatic

Stormwater management position created/staffed	(y/n)	<i>No.</i>
Annual program budget/expenditures	(\$)	<i>SW not separate budget.</i>

### Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	<i>CAC established; needs expansion.</i>
Stream teams established or supported	(# or y/n)	<i>No.</i>
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	<i>NA.</i>
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	<i>Wastes collected at town LF during all normal operating hours.</i>
▪ community participation	(%)	
▪ material collected	(tons or gal)	<i>1.38 tons</i>
School curricula implemented	(y/n)	<i>None under this program.</i>

### Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination		<i>Note 1</i>		
▪ Erosion & Sediment Control	<i>Note 2</i>			
▪ Post-Development Stormwater Management	<i>Note 2</i>			
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination		<i>Note 1</i>		
▪ Erosion & Sediment Control	<i>Note 2</i>			
▪ Post-Development Stormwater Management	<i>Note 2</i>			

Notes: 1 Review and recommendations for revision of existing policies/procedures completed during Project Evaluation Report (PER).

2 Topic addressed in existing town policy, bylaws, ordinances, or other regulatory mechanism; however, review/revision specific to SWPhII required.

### Mapping and Illicit Discharges

Outfall mapping complete	(%)	25%
Estimated or actual number of outfalls mapped	(#)	21. This number reflects either pipe ends identified or mapping that indicates possible outfalls. Additional field verification required.
System-Wide mapping complete	(%)	10%
Mapping method(s)		
▪ Paper/Mylar	(%)	Record drawings exist for individual drainage projects, but are not filed/catalogued. Approximately 90% of outfalls located during PER were mapped with GPS and added to town GIS system. Schematic (not GPS) mapping of known drainage components was added to town GIS via PER.
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	Initial wet-weather sampling attempted on 14 outfalls; samples taken @ 10 outfalls.
Illicit discharges identified	(#)	None.
Illicit connections removed	(#) (est. gpd)	0
% of population on sewer	(%)	33%
% of population on septic systems	(%)	67%

### Construction

Number of construction starts (>1-acre)	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	
Site inspections completed	(# or %)	
Tickets/Stop work orders issued	(# or %)	
Fines collected	(# and \$)	
Complaints/concerns received from public	(#)	

### Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

### Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	<i>2-3</i>
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	<i>2-3</i>
Total number of structures cleaned	(#)	<i>1,230</i>
Storm drain cleaned	(LF or mi.)	<i>NA</i>
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	<i>473.54 tons</i>
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		<i>LF</i>
Cost of screenings disposal	(\$)	<i>NA-town LF</i>
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	<i>2/yr</i>
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	<i>2/wk summer</i>
Qty. of sand/debris collected by sweeping	(lbs. or tons)	<i>404 tons</i>
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	<i>LF</i>
Cost of sweepings disposal	(\$)	<i>NA-town LF</i>
Vacuum street sweepers purchased/leased	(#)	<i>None</i>
Vacuum street sweepers specified in contracts	(y/n)	<i>NA</i>
Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	
Anti-/De-Icing products and ratios (% NaCl, % CaCl <sub>2</sub> , % MgCl <sub>2</sub> , % CMA, % Kac, % KCl, % Sand)	(%)	<i>100%NaCl</i>
Pre-wetting techniques utilized	(y/n)	<i>No</i>
Manual control spreaders used	(y/n)	<i>Yes</i>
Automatic or Zero-velocity spreaders used	(y/n)	<i>No</i>
Estimated net reduction in typical year salt application	(lbs. or %)	<i>NA.</i>
Salt pile(s) covered in storage shed(s)	(y/n)	<i>Yes</i>
Storage shed(s) in design or under construction	(y/n)	<i>NA.</i>

**ATTACHMENT A**

**Table III**  
**Summary of Minimum Control Measures**

**Tal**  
**Summary of Minim**

<b>BMP ID#</b>	<b>Best Management Practice</b>	<b>Responsible Party</b>	<b>Measurable Goal</b>
<b>1. Public Education</b>			
1a	Distribute/post non-point source pollution poster	Town Manager	Post in all schools and town buildings
1b	Air stormwater message on local cable access channel	Town Manager	Post one message every month
1c	Obtain and distribute auto repair shop brochures	Town Manager	Distribute to all impacted local businesses
1d	Add stormwater information to town's Website	Town Manager	Update information quarterly to address season
<b>2. Public Participation</b>			
2a	Expand Citizen's Advisory Committee	Town Manager	Hold quarterly meetings
2b	Collect and recycle waste oil from residents	Highway Department	Collect waste oil at least once per month from r
2c	Collect paint from residents	Highway Department	Collect paint from residents on at least a quarter
2d	Implement a Catch Basin Stenciling Program	Town Manager	Stencil 25% of catch basins each year
<b>3. Illicit Discharge Detection and Elimination</b>			
3a	Map outfalls and receiving waters	Town Manager	Map 25% of outfalls that drain urbanized areas
3b	Review existing bylaws and regulations	Planning Department	Determine if existing bylaws and regulations fu requirements
3c	Develop Illicit Discharge Detection & Elimination Plan	Planning Department	Make recommendations for inclusion into propo
3d	Develop/Modify General Illicit Discharge Bylaw	Planning Department	Propose recommendations for modifying/develo
<b>4. Construction Site Runoff Control</b>			
4a	Review existing site inspection practices	Planning Department	Determine if existing practices fulfill EPA requ
4b	Develop/modify site inspection program	Planning Department	Make recommendations for modifying existing
4c	Review existing bylaws and regulations	Planning Department	Determine if existing bylaws and regulations fu requirements
4d	Develop/modify bylaw for construction site runoff	Planning Department	Propose recommendations for modifying/develo
<b>5. Post Construction Runoff Control</b>			
5a	Review existing site inspection practices	Planning Department	Determine if existing practices fulfill EPA requ
5b	Develop/modify inspection and maintenance practices	Planning Department	Made recommendations for modifying existing
5c	Review existing bylaws and regulations	Planning Department	Determine if existing bylaws and regulations fu requirements
5d	Devleop/modify bylaws for post-construction site runoff	Planning Department	Propose recommendations for modifying/develo
<b>6. Municipal Good Housekeeping</b>			
6a	Street sweeping program	Highway Department	Sweep all streets at a minimum twice per year
6b	Catch basin cleaning program	Highway Department	Check catch basins quarterly and clean up to tw



e III  
m Control Measures

	Progress on Goal - Permit Year Three	Planned Activities - Permit Year Four
	No activities were performed	Post in all schools and town buildings
	No activities were performed	Begin posting messages
	No activities were performed	Distribute notices to all impacted local businesses
concerns	Waste collection/drop off and composting info. updated	Update information yearly
	CAC remains at 14; meetings were not held quarterly	Continue efforts to grow the CAC; hold bi-annual meetings
idents	Waste oil collection and recycling was completed	Continue to collect and recycle waste oil from residents
/ basis	Paint collection was completed	Continue to collect paint from residents
	No activities were performed	Stencil 50% of catch basins
ch year	No activities were performed	Map 50% of outfalls that drain to urbanized area
II EPA	Action recommended in final PER	Determine if existing bylaws and regulations fulfill EPA requirements
ed plan	Action recommended in final PER	Make recommendations for inclusion into proposed plan
ing bylaw	Action recommended in final PER	Propose recommendations for modifying/developing bylaw
ments	Action recommended in final PER	Review existing site inspection practices
ogram	Action recommended in final PER	Develop/modify site inspection program
II EPA	Action recommended in final PER	Review existing bylaws and regulations
ing bylaw	Action recommended in final PER	Develop/modify bylaw for construction site runoff
ments	Action recommended in final PER	Review existing site inspection practices
actices	Action recommended in final PER	Develop/modify inspection and maintenance practices
II EPA	Action recommended in final PER	Review existing bylaws and regulations
ing bylaw	Action recommended in final PER	Devleop/modify bylaws for post-construction site runoff
	Street sweeping was completed	Continue to sweep all streets a minimum of twice per year
e per year	Catch basin inspection and cleaning was completed	Continue to check catch basins quarterly for sediment and clean every year